

NOV 04 1999

#9/Today
11/9/99

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Worenicz et al. Examiner: J. Aftergut
Serial #: 08/057,406 Group Art Unit: 1733
Filed: April 8, 1998 Docket: 94-38-3-US-D

Title: **METHOD FOR PRODUCING A CONTINUOUS THERMOPLASTIC COATING AND ARTICLE CONSTRUCTED THEREFROM**

51.132 DECLARATION

Assistant Commissioner for Patents
Washington D.C.

I, Dr. Peter Remmers, declare and state the following:

I am familiar with U. S. Patent Application Serial No. 08/057,406 including the specification and the claims. I am also familiar with the Office Action of February 23, 1999 and U.S. Patent No. 5,408,733 issued to Boger et al. 4-25-95.

I obtained a Doctorate degree in Chemistry from the University of Braunschweig, Germany. From May 1992 to present, I have been employed by the H.B. Fuller Company, Lüneburg, Germany conducting hot melt adhesive research.

I, Dr. Peter Remmers, declare and attest to the following:

1. I believe U.S. Patent No. 5,408,733 issued to Boger et al. 4-25-95 refers to a coating method commonly known in the hot melt industry as "Control Coat®".

2. I attempted to apply a hot melt adhesive with a Control Coat® applicator to determine whether it was possible to obtain a continuous film at low coating weights.

3. HL1618-X is a hot melt adhesive product available from H.B. Fuller Company having the widest application window for use in the method described and claimed in U.S. Patent Application Serial no. 08/057,406.

4. HL-1613-X was applied to a porous nonwoven with the method described in U.S. Patent Application Serial no. 09/057,408 at a coating temperature of 140°C, a coat weight of 8-10 g/gram/m² and a rate of 222 meters/minute resulting in a continuous coating.

5. The application conditions attempted with the Control Coat® applicator with HL-1613-X were as follows:

Temperature: 140°C to 180°C

Air pressure: 0.5 bar to 5.0 bar

Coat Weight: 40 g/m² to 150 g/m²

6. All the films obtained with the Control Coat® applicator were observed to have an open structure.

I hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that statements are made with the knowledge that willful and false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that false statements may jeopardize the validity of the application or any patent issued thereon.

04. Nov. 99
Date



Dr. Peter Remmers

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GST REGISTRATION NO.: R119424844

Borden & Elliot

BARRISTERS & SOLICITORS/TRADEMARK AGENTS

October 13, 1999
Bill No. 233797

H.B. Fuller Company, World Headquarters
Patent Department
1200 Willow Lake Boulevard
St. Paul, Minnesota
U.S.A. 55110-5132

Attention: Dr. Nancy Quan

Our Matter # 0946826
H.B. FULLER-HOT MELT ADHESIVE

FOR PROFESSIONAL SERVICES RENDERED through September 30, 1999 in connection with the above-named matter.

09/23/99 Re: Hot Melt Adhesive - forwarding issued patent.

Our Fee	\$ 78.00
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Total Fees and GST	\$ 78.00
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DISBURSEMENTS

TAXABLE

Deliveries International	\$ 16.25
Photocopying	\$ 5.50
TOTAL TAXABLE	\$ 21.75

Total Disbursements and GST	\$ 21.75
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Bill No. 233797
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TOTAL FEES, DISBURSEMENTS AND GST	\$ 99.75
TOTAL DUE FOR THIS MATTER	\$ <u>99.75</u>
TOTAL DUE	\$ <u>99.75</u>

Bill rendered October 13, 1999

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October 13, 1999
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H.B. Fuller Company, World Headquarters

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IN THE ENVELOPE PROVIDED

Our Matter # 0946826/0371
H.B. FULLER-HOT MELT ADHESIVE

FOR PROFESSIONAL SERVICES RENDERED through September 30, 1999 in connection with the
above-named matter.

Our Fee	\$	78.00
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Disbursements	\$	21.75
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Total Disbursements and GST	\$	21.75
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TOTAL FEES, DISBURSEMENTS AND GST	\$	99.75
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TOTAL DUE	\$	99.75
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